Technical Data Sheet		Rosenberger
F 75 Ω	Calibration Kit Industrial Version	**74CK010-170**

Contents

Device	Part number	Quantity	Calibration Option[a]
Open circuit plug	74S12L-000S3	1	FC
Open circuit jack	74K12L-000S3	1	FC
Short circuit plug	74S12S-000S3	1	FC
Short circuit jack	74K12S-000S3	1	FC
Calibration load plug	74S150-C10S3	1	FC
Calibration load jack	74K150-C10S3	1	FC
Calibration adaptor plug/plug	74S121-S20S3	1	FC
Calibration adaptor jack/jack	74K121-K20S3	1	FC
Combi wrench	53W011-000	1	-
Torque wrench	74W021-000	1	FC

a. See “Declaration of calibration options” for explanation.

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Documentation

This kit is delivered with

- **USB-Stick**
  Standard Definitions as data files for Vector Network Analyzer Families PNA (Keysight/Agilent) and ZVA (Rohde&Schwarz). Calibration Certificate as PDF-file.
- **Standard Definitions Cards**
  Printed Standard Definitions that can be used on nearly all Vector Network Analyzers.
- **Kit Info Card**
  Handling precautions and information for installing Standard Definitions on a Vector Network Analyzer.
- **Calibration Certificate**
  Details see "Declaration of calibration options"
- **Operating Manual**

Electrical specifications

This specification covers electrical key specifications for the calibration standards of the calibration kit. Specific and more detailed datasheets are available for each kit device among the part number.

Calibration standard	Frequency	Parameter	Specification
Opens[b] (plug and jack)	DC to ≤ 4 GHz	Error from Nominal Phase	≤ 1.5°
Shorts[b] (plug and jack)	DC to ≤ 4 GHz	Error from Nominal Phase	≤ 1.0°
Calibration loads (plug and jack)	DC to ≤ 4 GHz	Return Loss	≥ 40 dB
Calibration adaptors (plug/plug and jack/jack)	DC to ≤ 4 GHz	Return Loss	≥ 32 dB

b. The specifications for opens and shorts are given as allowed deviation from nominal model as defined in calibration certificate included with your kit.

Mechanical data

Accommodate male contact diameter	0.76 mm to 0.86 mm

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Declaration of calibration options

Factory Calibration

Standard delivery for this kit includes a Factory Calibration. The Calibration Certificate issued reports individual calibration results, **traceable to Rosenberger standards**, national / international standards are not available. Model based standard definitions of the calibration standards are reported in Agilent/Keysight, Rohde & Schwarz and Anritsu compatible VNA format.

Accredited Calibration

Not available.

For further, more detailed information see application note AN001 on the Rosenberger homepage.

Calibration interval

Recommendation	12 months

Recommended accessories

- Rosenberger Test Port Adaptor
- Rosenberger VNA Test cable kit and Microwave Cable Assemblies

Recommended adaptor

RPC-N (75) to F	RPC-N(75)f – F f	P5K174-K20S3
	RPC-N(75)f – F m	P5K174-S20S3
	RPC-N(75)m – F f	P5S174-K20S3
	RPC-N(75)m – F m	P5S174-S20S3
F	F m – F f	74S121-K20S3

For further, more detailed information please visit our homepage www.rosenberger.com.

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